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ITNS-301

-Patent Granted in Taiwan #M347590-
-Patent Granted in Japan #3147795-

User Manual

Version 1.03
Sep 2009

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I. Unpack ITNS-301

ITNS-301

Negative/Slide Film Holder

User Manual

AC Power Adaptor

USB/Video Cable

Roll Film Holder

Cleaning Brush

Note

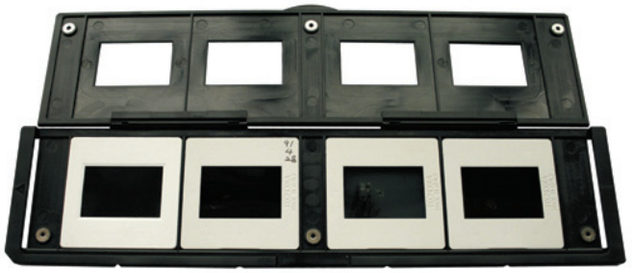
- ✧ We strongly suggest using a clean, dry, non-alcohol cotton swab to clean the glass surface periodically to produce a clear image during operation.
- ✧ Clean dust from FilmScanner back light, to use the clean brush to wipe the dust.
- ✧ Dust or dirt from the negative, slide films and cover trays may affect the scanned image quality, please make sure the materials are cleaned before inserting into the scanner.
- ✧ Please find recommend, processional purger from photo store to clean the dust on films if any to avoid damaging the only one copy of old films.

II. Install film into the film holder

● Install the Slide into holder

1. Open the slide holder as illustrated

2. Put slide into positive slide slot



3. Close the film holder

● Install the Negative Film into holder

1. Open the film holder as illustrated

2. Install film into negative film slot

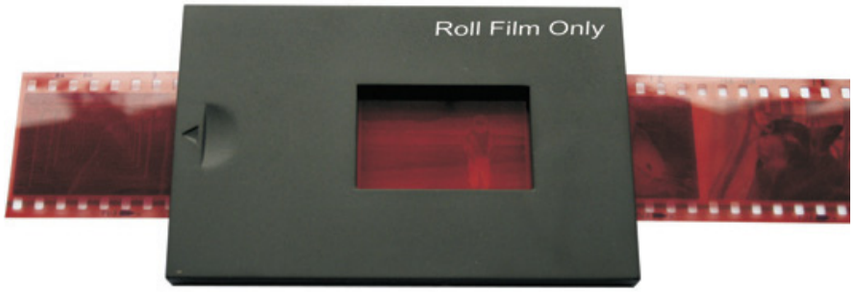
3. Close the film holder

- ***Install the Roll Film into holder:***

1. Take out the roll film holder from package

2. Insert roll film into film slot

3. Pull out the roll film in another side



Note

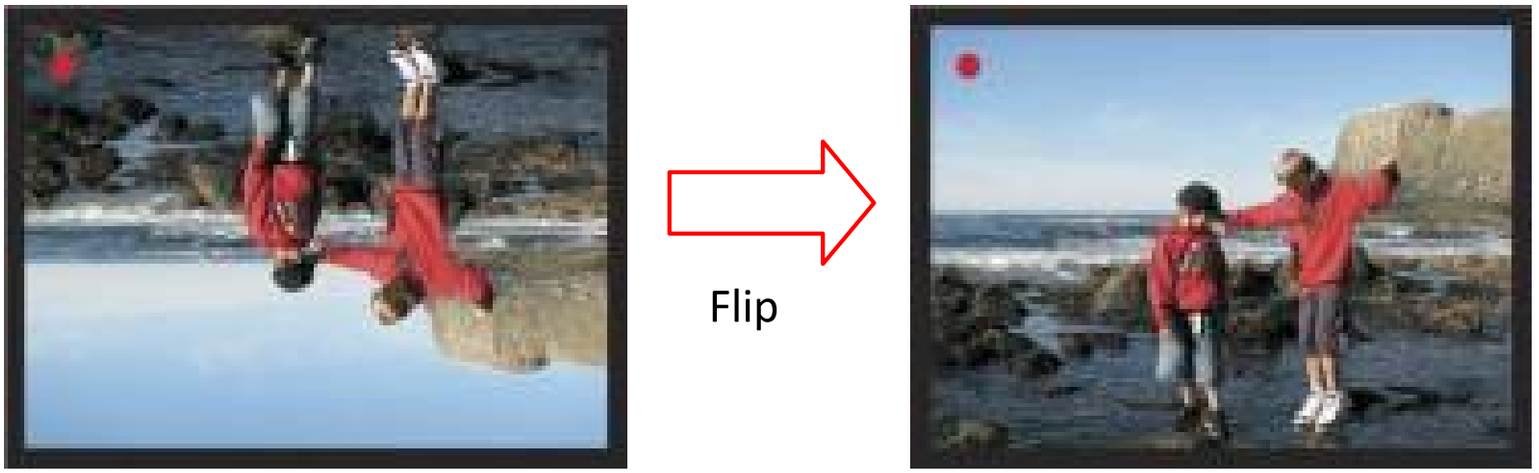
- ✧ To avoid a mirror image, follow the serial numbers on top of film (from left to right) when installing negative film into holder

Figure 1

- ✧ If the image is upside down [see fig.2], the image can be corrected by the Flip function by pressing the function key on top of device before capture, or applying the same function by entering playback edit menu after capture [see fig.3.&4].

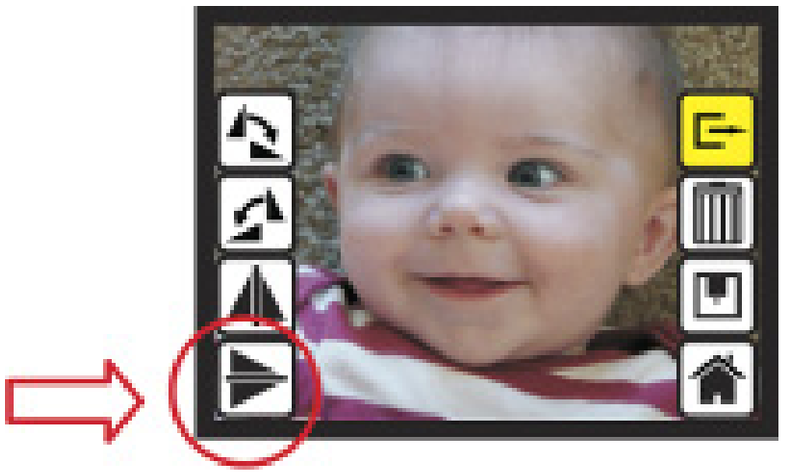
Figure 2

Down/Flip button
(Flip hot key)



- *Press Flip hot key on top of device during live view*

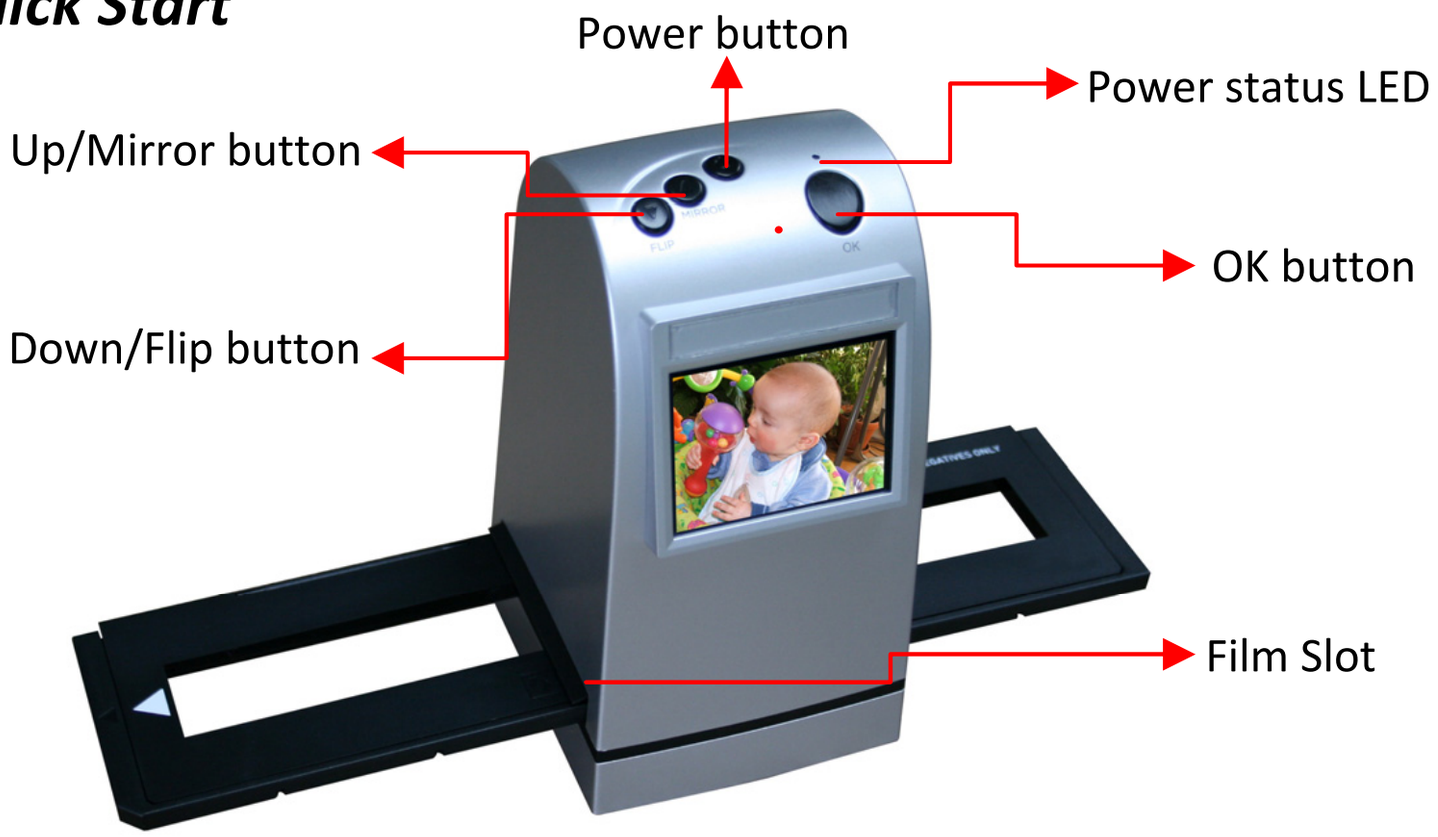
Figure 3

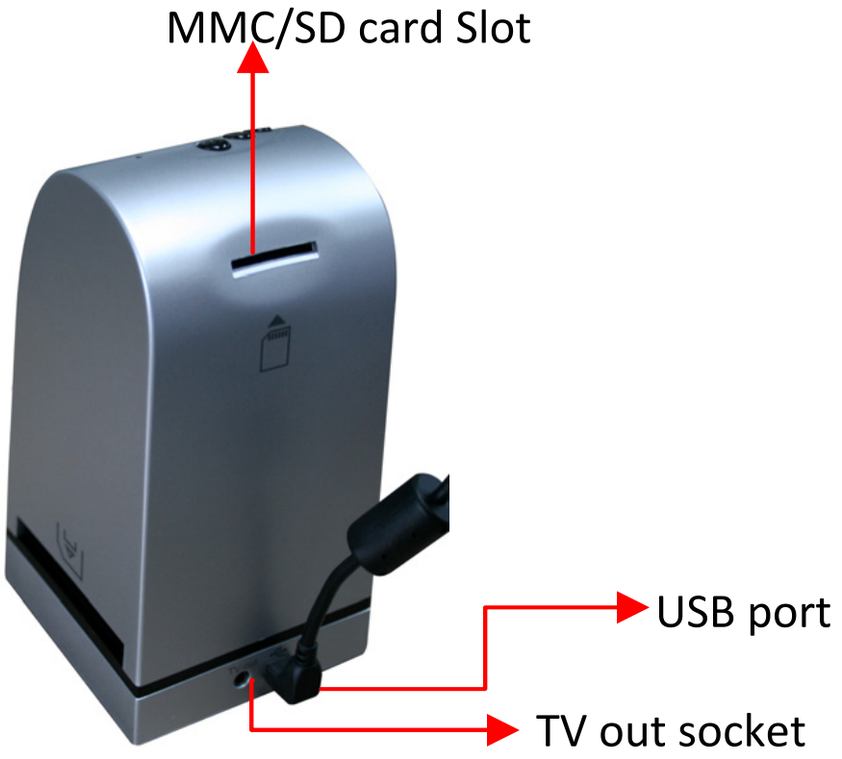


- *Flip function in playback mode menu*

Figure 4

III. Quick Start





1. Put Film onto the film cartridge

2. Insert the film cartridge into ITNS-301

3. Connect USB cable to ITNS-301

4. Turn on Device by power button

5. Press OK button to capture the image

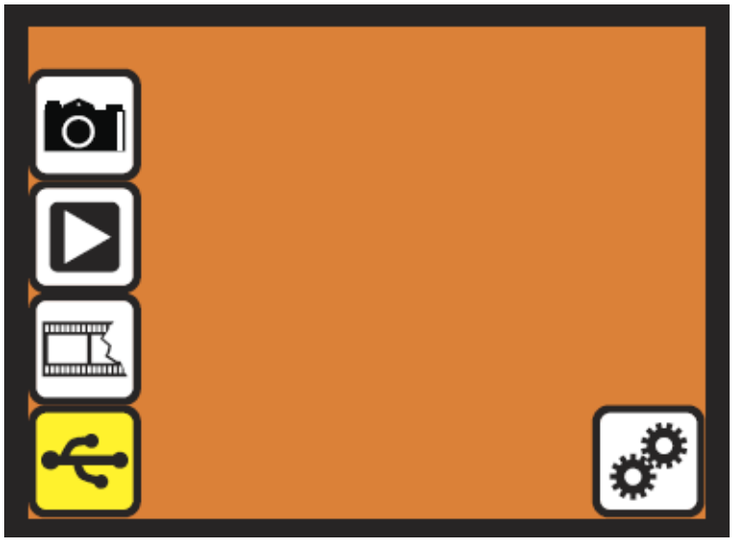
Note

The scanner has 24MB of flash built in. If there's no SD card inserted before starting, the images will be saved onto the internal memory instead. The images will be saved onto an SD card while a card is inserted.

6. Follow the menu on display for scanning

7. After finishing with the image capture, take out the SD card with the stored images and insert into a device with an SD card slot

8. Or read picture from PC by USB mode

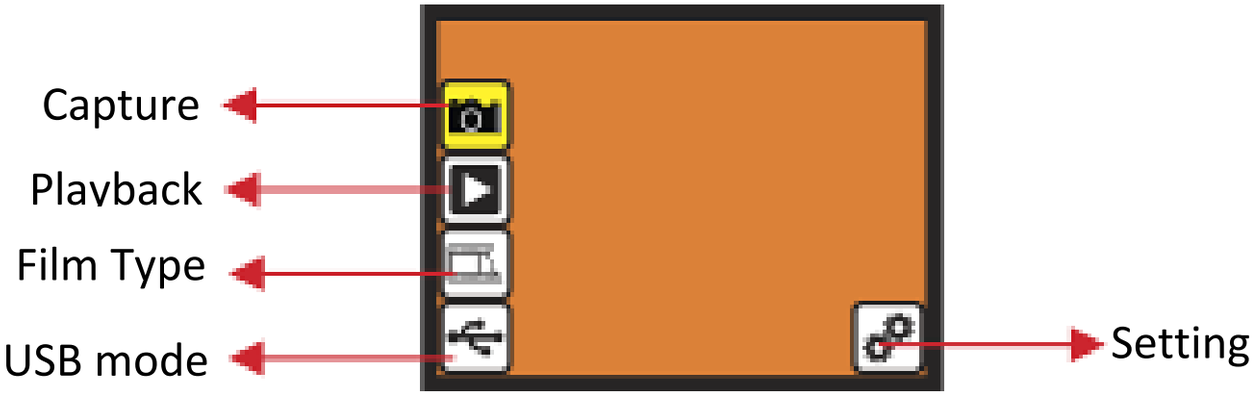


Note

✧ For more detail information about USB mode, please see section **4. USB Mode** information on page 27.

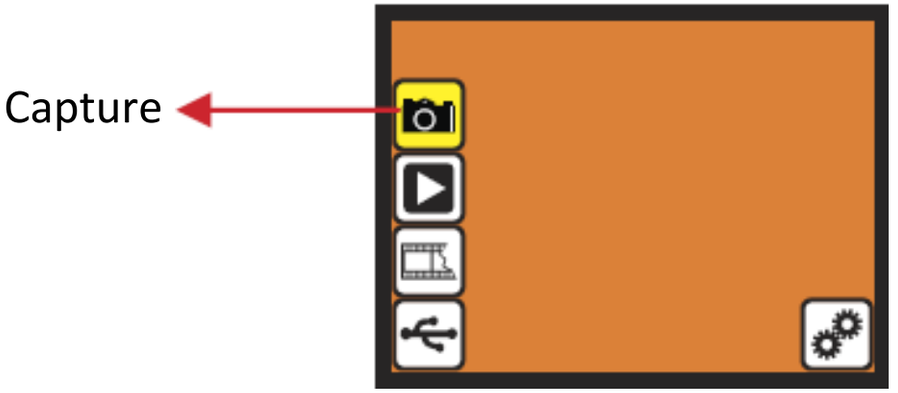
IV. Operation Guide

Home: Main menu



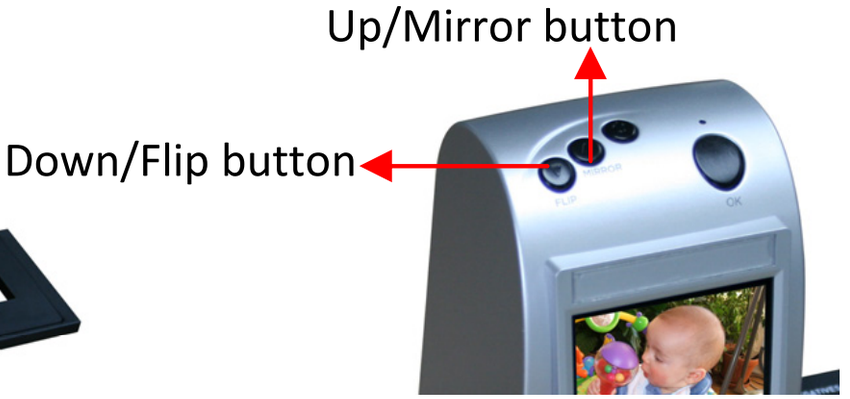
- *Capture: capture mode (default)*
- *Playback: playback mode*
- *Film Type: define the film type which loaded in cartridge*
- *USB mode: MSDC (Mass Storage Device Class) mode*
- *Setting: TV out and format option*

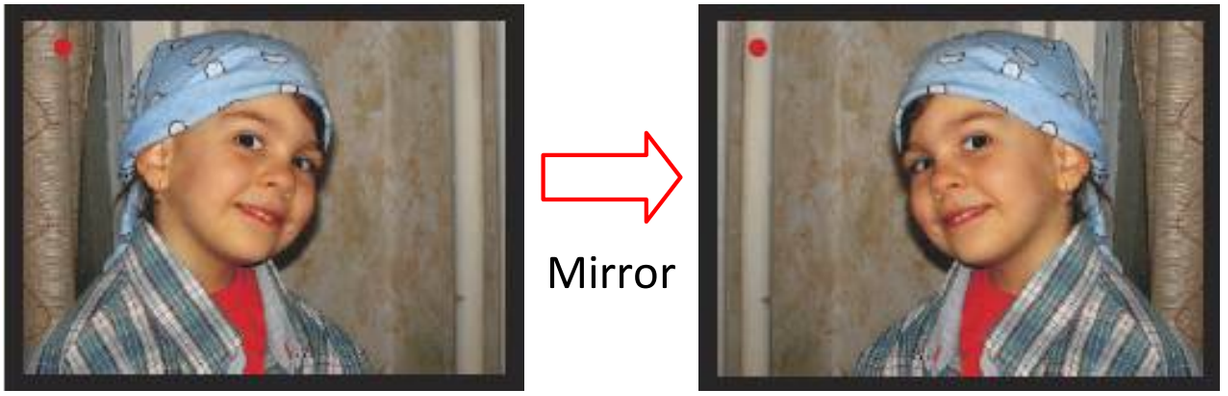
1. Capture



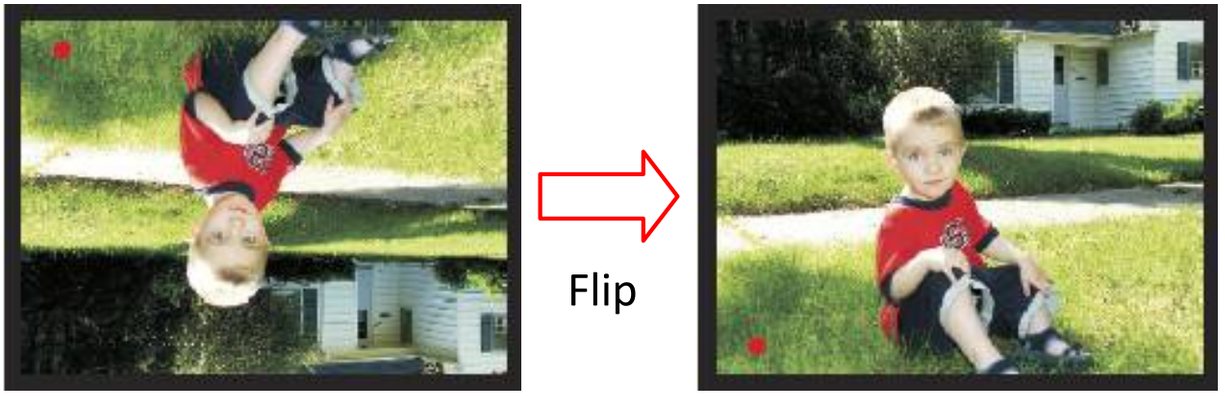
After the welcome page, above menu will remains for 5 sec. User can press up/down button for desired menu. Or system will auto enter Capture mode if there is no action during this 5 second period.

1.1 Capture: Mirror/Flip (Hot key)





- *Press Up/Mirror button to change image left to right*



- *Press Down/Flip button to upside down image*

1.2 Capture mode

Once entering Capture mode, there will be a red indicator on left top corner to indicate it is in live view mode. When the film cartridge is inserted into the scanner slot, the image always shows the positive image according to previous defined Film Type (after power on. the Film Type is default to negative film). Reconfirm the film position through the display before press OK button.

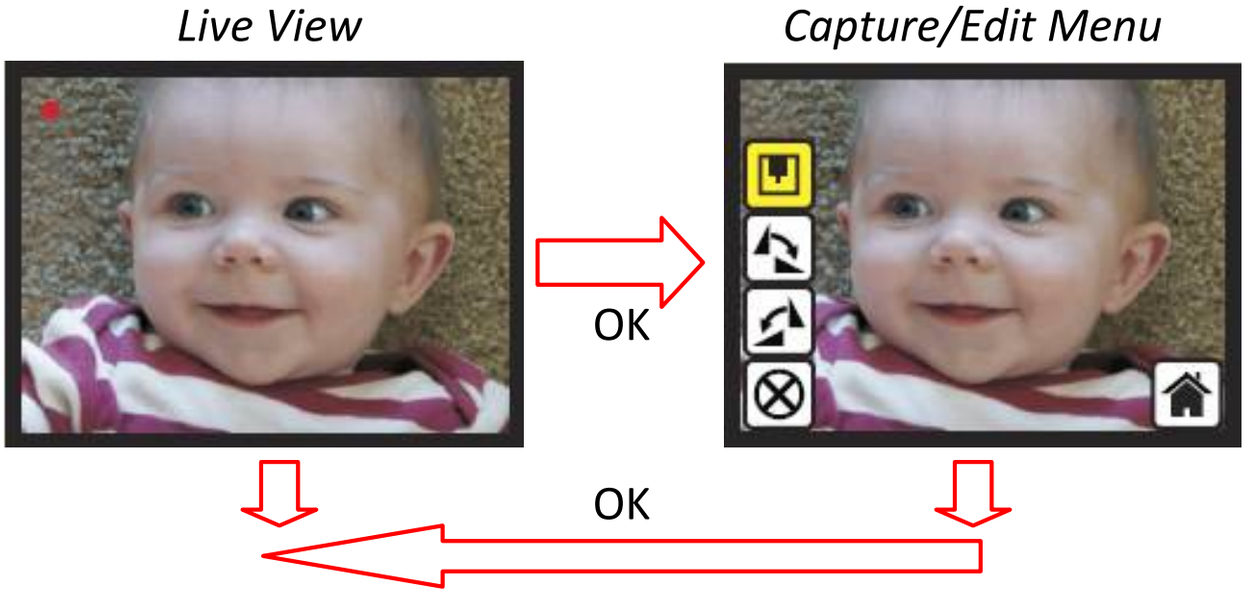
1.3 Capture: Edit Menu

- *Save: save captured image*
- *Rotate +90: continue rotate +90 degrees*
- *Rotate -90: continue rotate -90 degrees*

(this is for adjusting the user who took the portrait picture)

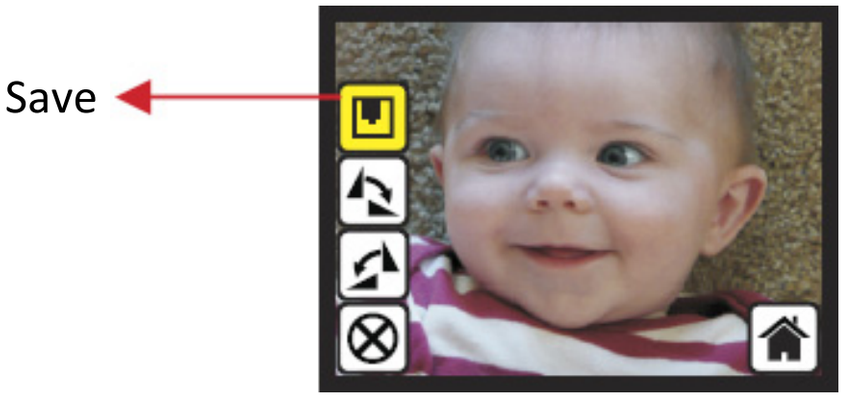
- *Cancel: cancel any editing with this image*
- *Home: Back to main menu*

1.4 Live View -> Capture/Edit Menu



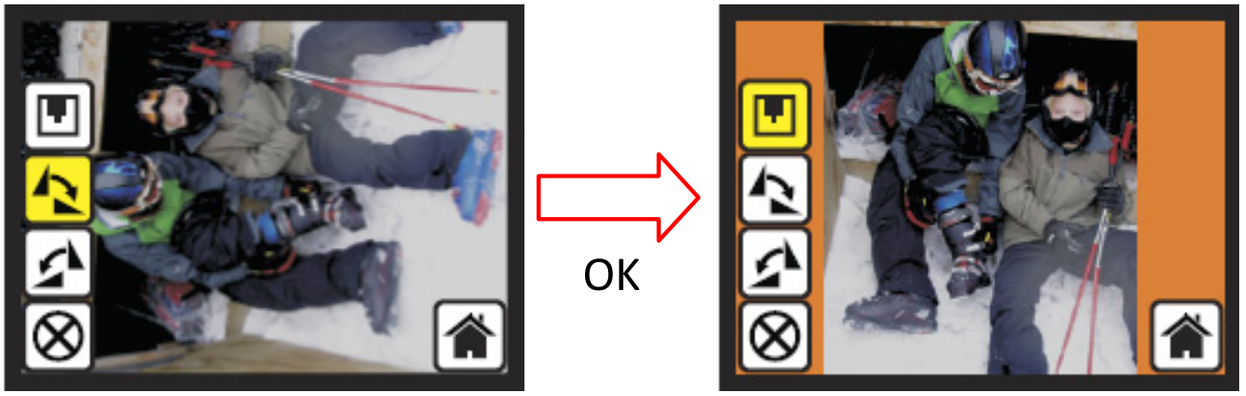
Once pressing the OK button in live view, the edit menu will appear. When user presses the OK button again, the current image will be saved onto SD card (or internal memory). The display will return to live view again.

1.5 Capture: Save



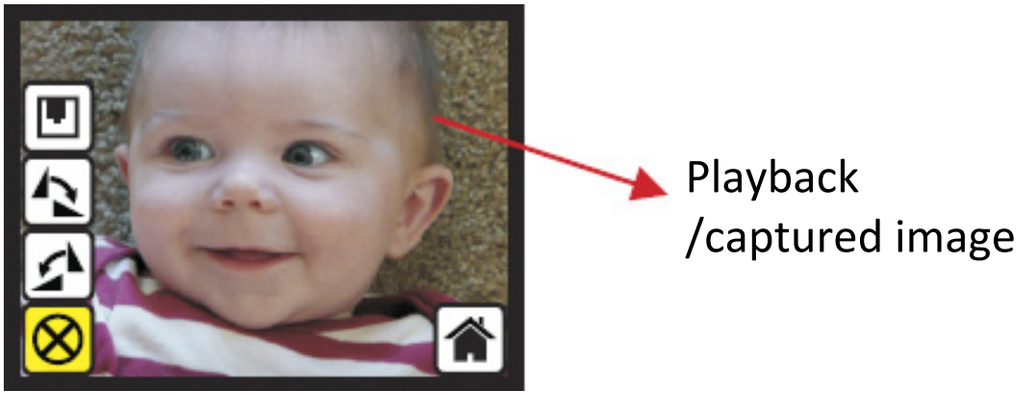
Once user presses the OK button on top of ITNS-301, preview (live view) image will be selected and shown on the TFT. There are 4 icons shown on the left side of the screen. The Save icon will be highlighted for user to confirm the save option by pressing the OK button. After the above step, display goes back to live view mode (preview: See 1.4).

1.6 Capture: Rotate +/-90 degrees



User can apply the up/down button for further editing (rotate +90/-90). Once the user confirms rotate +90 degrees command, they can press the OK button, the image will be rotated +90 degrees and cursor will remain at Save. Press OK button again will save the rotated image to SD card and the screen will return to live view. For continuously rotate +90 degrees, move cursor to rotate again and press OK.

1.7 Capture: Cancel

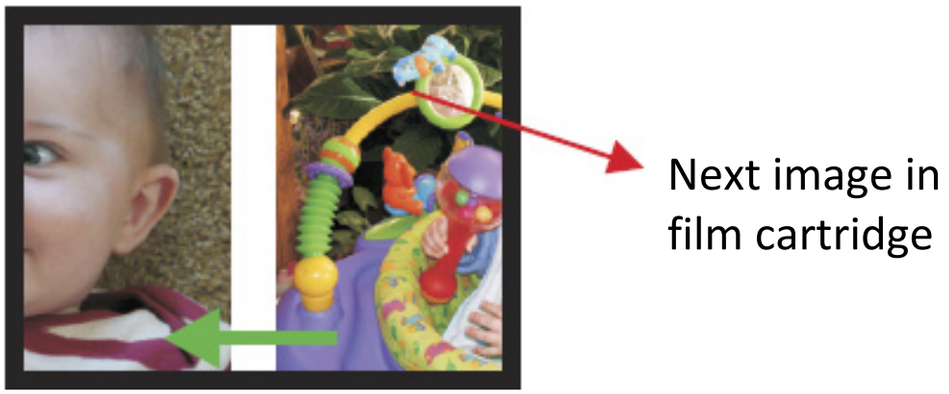


Or select Cancel and press OK button to cancel any of the editing step with present selected image. ITNS-301 will return to live view mode.

1.8 Capture: Home

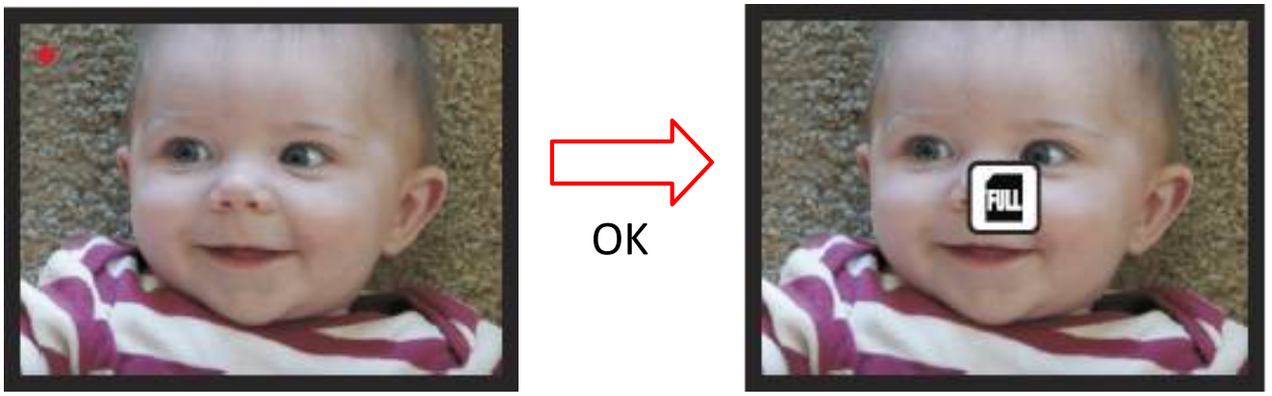
Go back to main menu, press OK button when select Home icon.

1.9 Exit from Edit mode back to Capture mode (Live View)



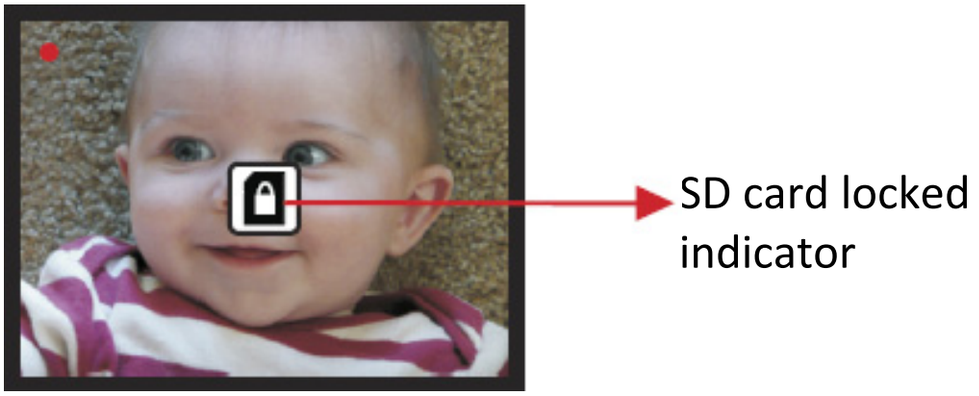
Once the User presses OK button for save or cancel option, display will return to capture mode/live view. Then, user can move the film cartridge to next target film to capture.

1.10 Memory full



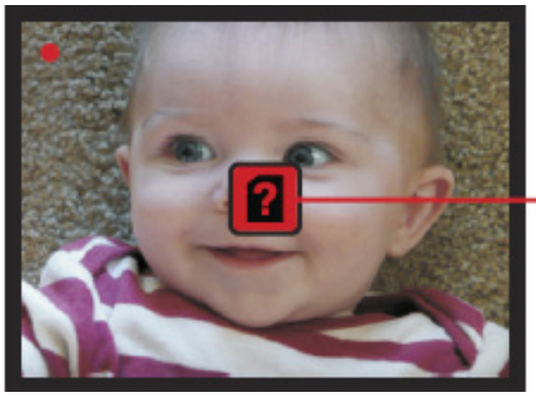
Once the internal memory or SD card is full, user will see an SD card full icon appear, press the OK button. User has to download the images to a PC or replace with another SD card before continuing with image capture.

1.11 SD card locked



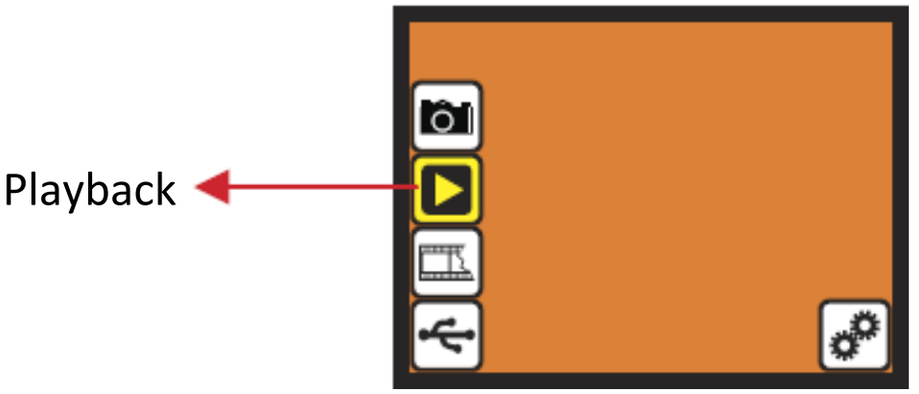
If the SD was locked, press the OK button once, an SD Card locked icon will display on screen. Slide the switch on the SD card to unlock before inserting into device again.

1.12 SD card error



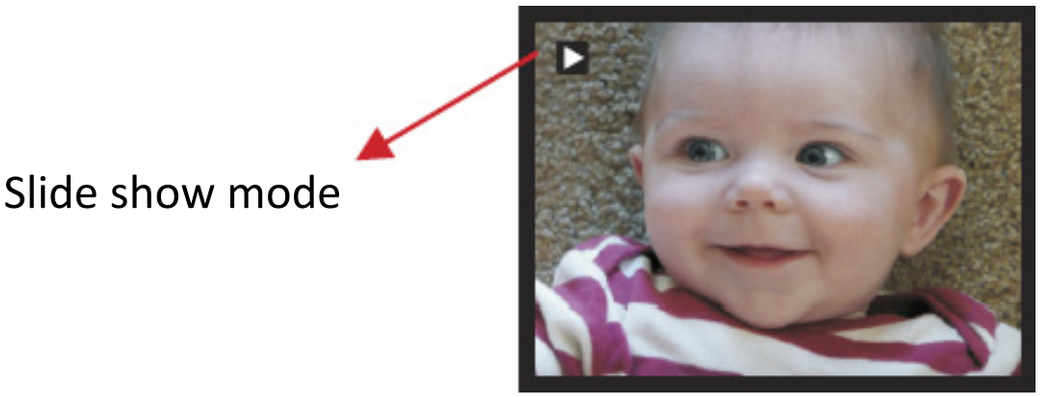
If the scanner cannot detect an SD card in good condition, a warning icon with a question mark will be shown on the display. Please try to format the SD card or replace with another proper SD card before continuing with further operation. (For format function, please refer to Setting section on page 30.)

2. Playback



Press Down button to Playback mode when power on ITNS-301 or access the main menu by Home icon if during operation. Press OK button to confirm the selection.

2.1 Playback: Auto Slide Show



Once user enters Playback mode (default to slide show), 2.4 TFT will auto display all images stored on the SD card with 2 seconds intervals. User can also stop the slide show mode by pressing the OK button once. Then, manually control the image playback by press up/down button one by one.

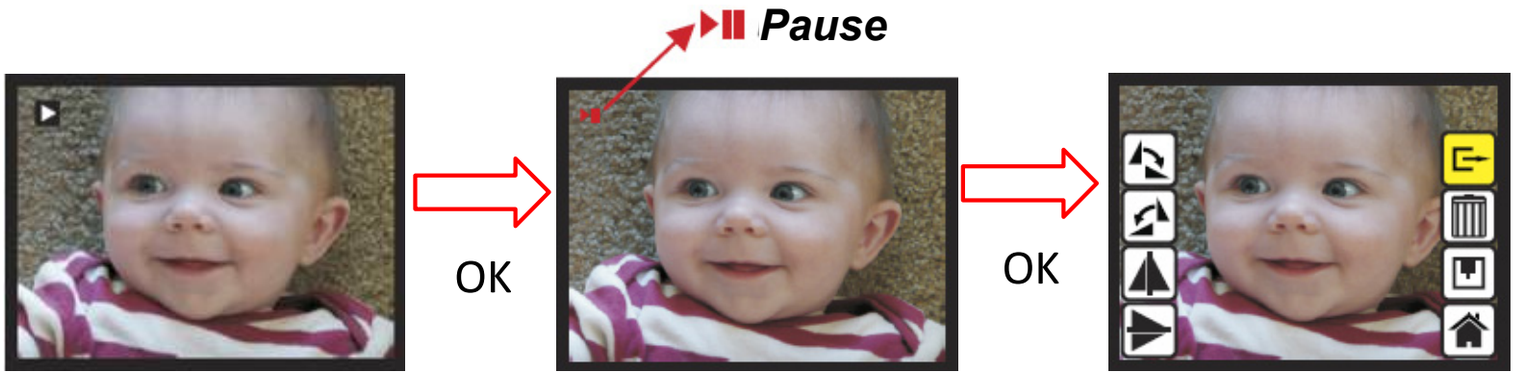
2.2 Playback: Edit Menu

- *Rotate +90: captured image rotate +90 degrees*
- *Rotate -90: captured image rotate -90 degrees*
- *Mirror: change image left to right*
- *Flip: upside down image*
- *Exit: returns to Slide show*
- *Delete: delete this picture stored in SD card*
- *Save: save the modified image onto SD card*
- *Home: returns to main menu*

2.3 Playback: Slide mode -> Edit mode

User can stop the slide show mode for a single picture playback by pressing the OK button once. (Pause of slide show) Now, user is able to scroll each picture one by one by the up/down button. Once user stops at a stored picture requiring changes, press the OK button again to exit out of the edit mode for modification

2.4 Slide Show -> Single picture -> Edit mode

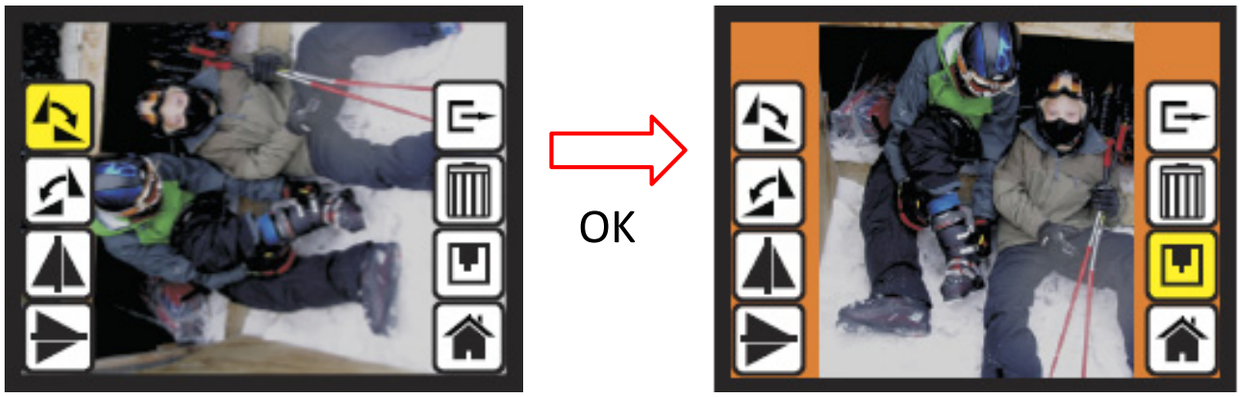


Slide show mode

Single picture mode
Use Up/Down button
to scroll picture to be modified

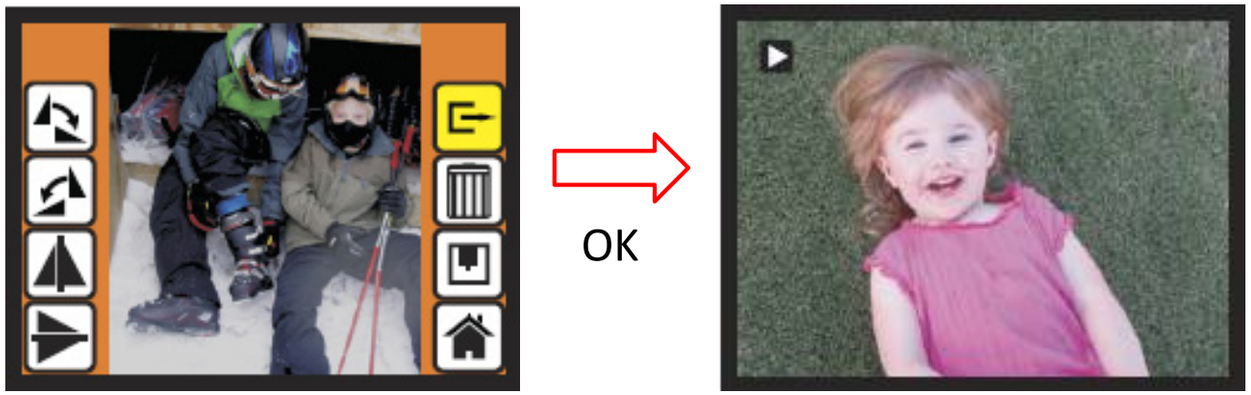
Edit mode

2.5 Playback: Rotate/Mirror/Flip/Save



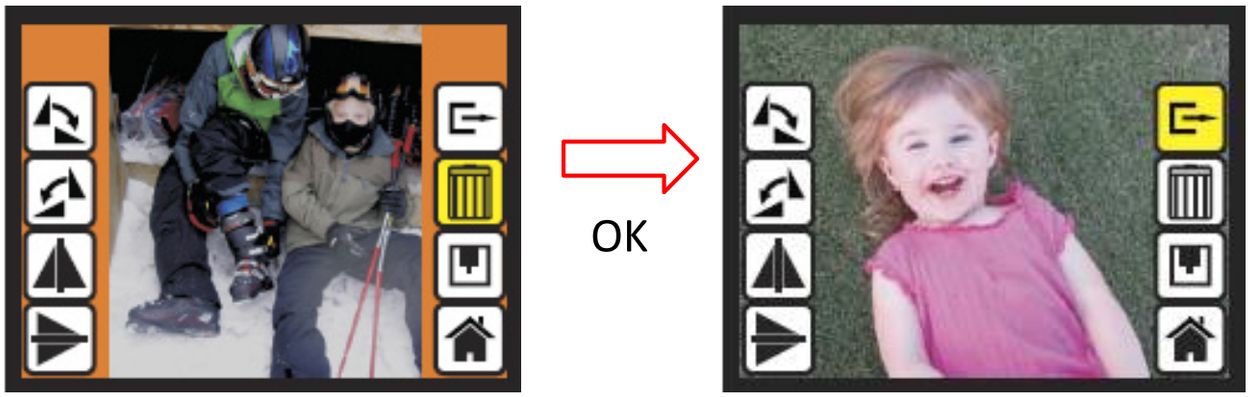
If the user wants to Rotate +90 degrees, press the OK button when the cursor has selected the Rotate + 90 option. The image will be rotate +90 degrees and cursor will remain at Save after each action. Press OK button to save modified result and next picture will be shown (N+1). To continue to Rotate +90 degrees, move cursor to Rotate option again and follow the same procedure above. (Please follow the same procedure for Rotate -90, Mirror, and Flip function)

2.6 Playback: Exit



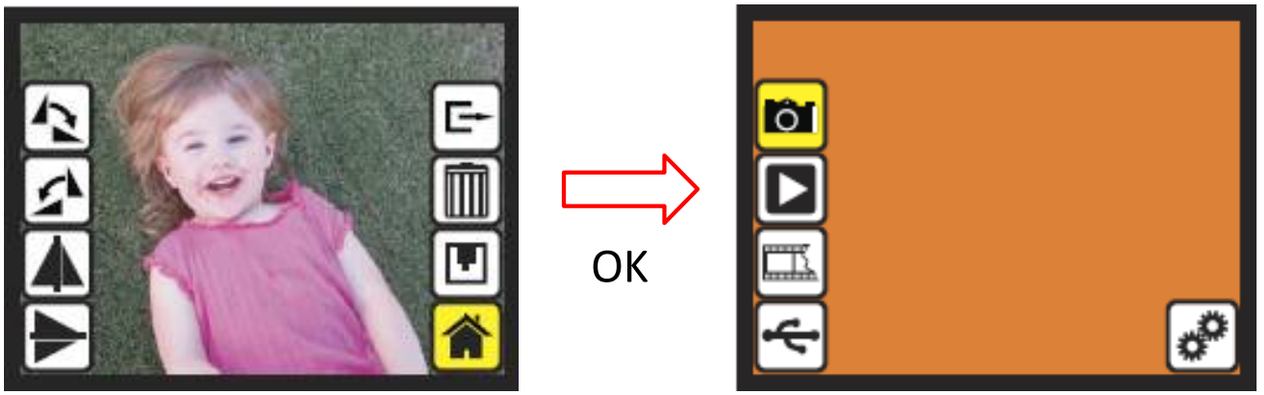
Once user selects the EXIT function in edit menu, the display will go back to slide show starting with the current picture in internal memory or SD card without saving any changes to the present picture.

2.7 Playback: Delete



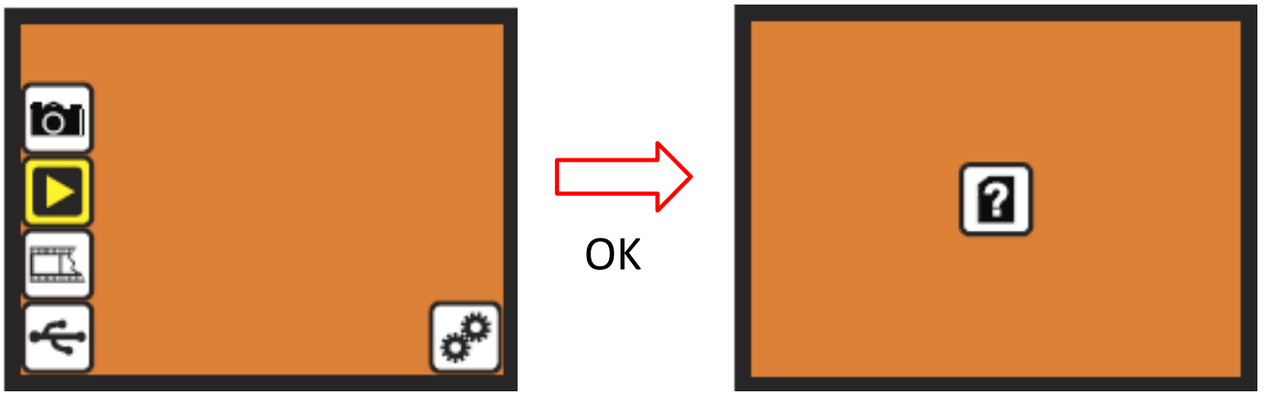
Delete will delete the present selected picture and next picture will be shown (N+1). Cursor goes to Exit icon after delete. If user intend to process continuously delete, just move to the delete icon again and press OK to confirm.

2.8 Playback: Home



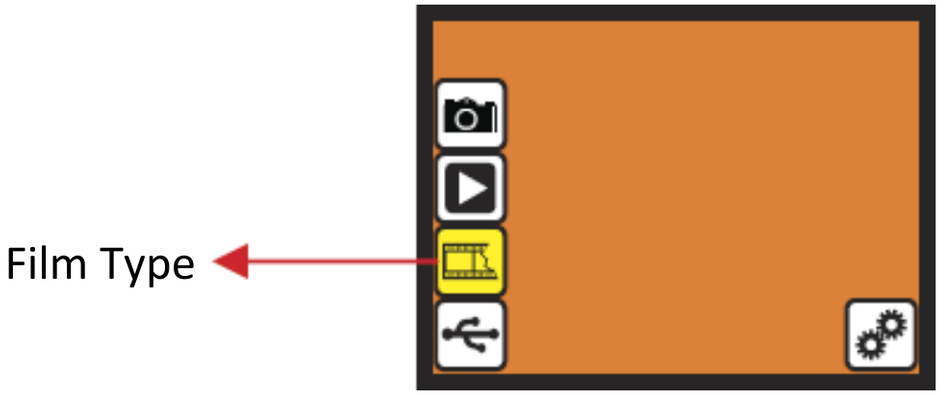
Go back to main menu, press OK button when select Home icon

2.9 Playback: No Picture



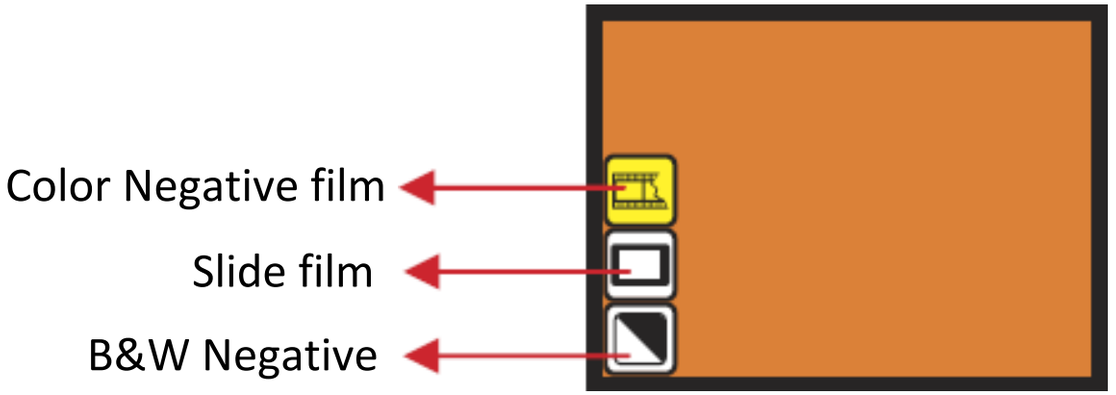
If there's no picture inside internal memory or SD card when entering playback mode, a No picture symbol will appear on the display.

3. Film Type



Change film type definition by entering Film Type menu when power ITNS-301 or access the main menu by Home icon if during operation. Press down button for Film Type and press OK to confirm.

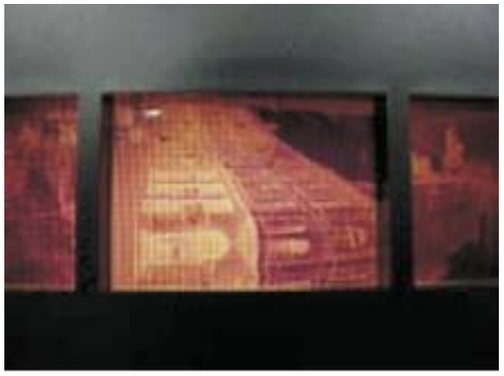
3.1 Film Type: Select Film Type



- *Negative film: select Negative film when cartridge loaded with negative film*
- *Slide: select Slide type when load slide in holder*
- *B&W film: select B&W when cartridge loaded with Black&White negative film*

3.2 Film Type: Example

Color Negative



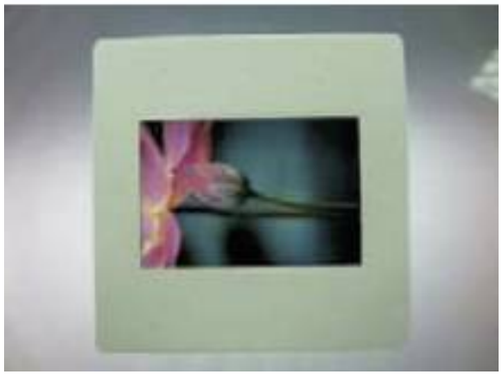
B&W Negative

Loaded

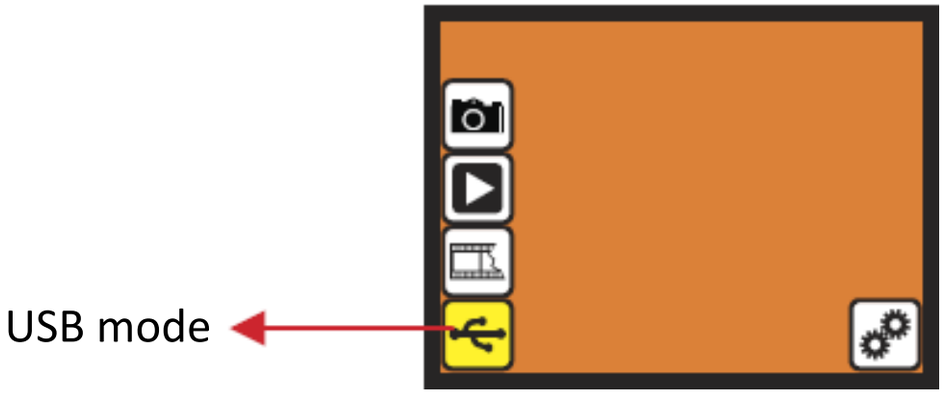
Into

Cartridge

Slide



4. USB Mode

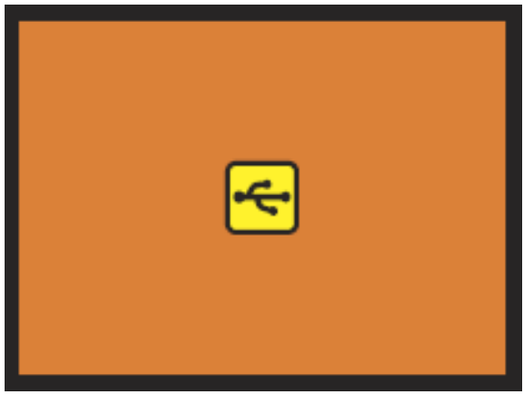


After finishing with image capture, the user can download the stored images from internal memory or SD card to PC by selecting USB mode. Select USB mode in main menu and press OK button when the USB cable is connected to the PC. ITNS-301 becomes a mass storage device and the user can read the images within the internal memory or SD card once PC has detected the external storage device. Or just take out the SD card from device and place into a PC card reader to read the images on the SD card directly.

Note

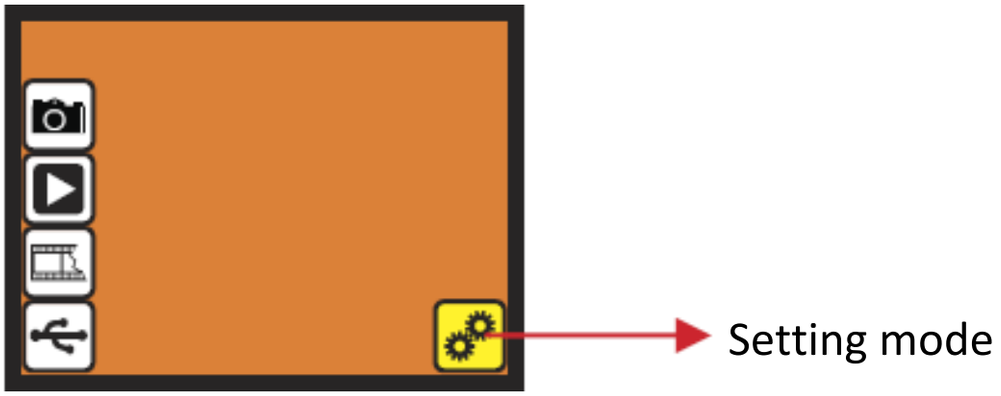
- ✧ This scanner is Mac compatible through MSDC mode.
- ✧ Apple Computer's Mac OX8.5.1 supports USB mass storage through an optional driver.
- ✧ Mac OS9 and Mac OS X support USB mass storage natively.

4.1 USB Mode: Status



Once the user selects USB mode ITNS-301 becomes a mass storage device and then a status icon shows on display, then user can find an external USB disk device from My Computer and review the images within the internal memory or a PC with an SD card reader.

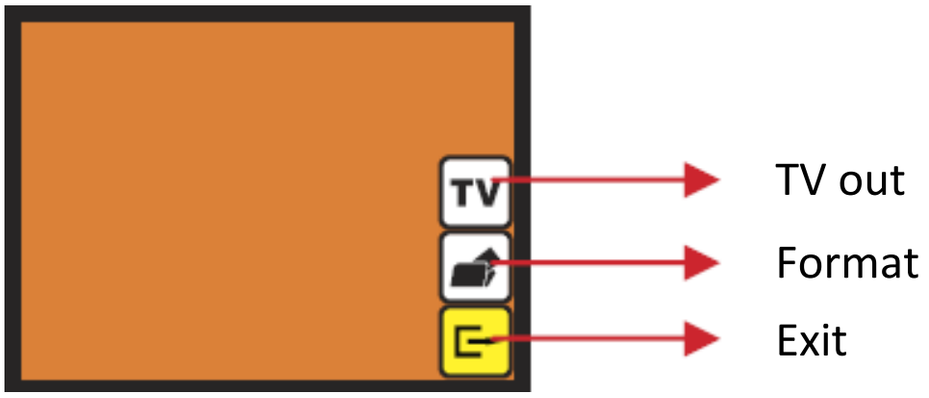
5. Setting Mode.



The setting mode covers TV out and format option. User can connect the device to a TV and finish the operation with TV display. Moreover, the scanned images can be in playback mode on the TV display to share with family.

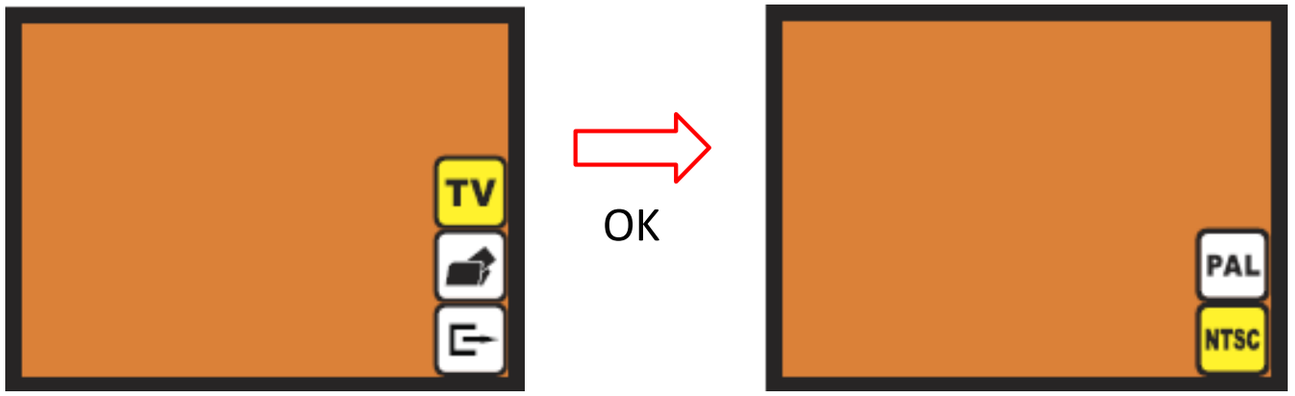
If the SD card was formatted by another device and not readable by scanner, user can apply the format function in scanner to correct to the required format.

5.1 Setting Mode



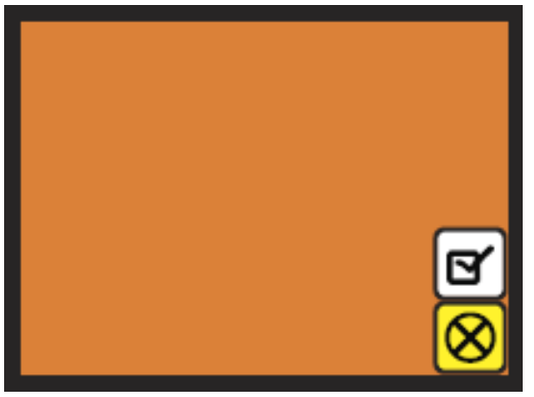
- *TV out: select NTSC or PAL according to required interface*
- *Format: format internal memory or SD card*
- *Exit: returns to main menu*

5.2 Setting: TV out



When the user wants to switch the display from on device LCD to TV display, the user can connect device to TV and select PAL or NTSC as required in TV out menu by OK button. Then, the TV display will show the same option for scanning operation. Or directly enter playback mode to slideshow the captured images on TV.

5.3 Setting: Format

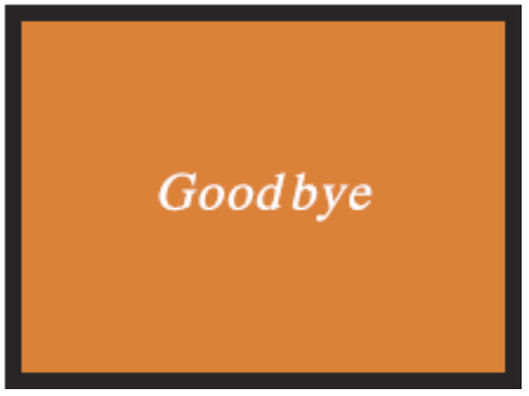


If the internal memory or SD card requires format by scanner, user can enter format mode by press OK button. The default setting will be cancel format. User can press OK button again to cancel the format or select confirm icon to confirm format the memory.

Note

If there's no SD card inside device, the internal memory will be formatted once process Format. Instead, if SD card is inserted in device, SD card will be formatted.

6. Good bye page



V. Specification

Image Sensor:	5 mega CMOS sensor
Lens:	F No.=2.0, 4 Glass elements,
LCD:	2.4’’ Color TFT LCD
Internal memory:	24MB NAND Flash (for saving images)
Focus Range:	Fixed focus
Exposure Control:	Automatic
Color Balance:	Automatic
Scan Quality:	1,800 dpi
Data Conversion:	10 bits per color channel
Scan Method:	Single pass
Light Source:	Back light (3 white LEDs)
Interface:	USB 2.0, TV-out (video 3.5mm socket)
USB Configuration:	Mass Storage Device Class/MSDC
Power: AC Adaptor:	5V supplied adaptor, or USB port power Model: HNB050100U Input: 100 – 240V~ 50-60Hz 0.15A MAX LPS Output: 5.0⎓1.0A UL/CUL Listed: E305498
Dimensions:	82x86x152mm
Weight:	0.41kg
External memory:	SD/MMC compatible (also supports SDHC)

FCC **WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. If this equipment does cause harmful interference, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna. -Move the transmitter to a different physical location. -Increase the separation between the equipment and receiver. -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help. -If you cannot eliminate the interference, the FCC requires that you stop using your device.

Statement that the product complies with Part15 (i.e. This device complies with Part15 of FCC Rules. Operation is subject to following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.)

CALIFORNIA PROP 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm. For more information on these regulations and a list of chemicals, log on the following website address:
http://www.oehha.ca.gov/prop65.html

Innovative Technology Electronics Corp.
Limited Warranty: 90 Days Labor, One Year Parts

Innovative Technology Electronics Corp. (IT) warrants the product to be free from “Defects” in materials under normal use for a period of “One Year” from the date of the original purchase. The Warranty is “Not” transferable. IT agrees, within the initial “90 Day” period, to repair the product if it is determined to be defective at “No Charge”. It is further agreed that IT will cover the cost to repair or replace damaged “Parts” only for a total period of “One Year” from the date of the original purchase. The warranty does not cover cosmetic damage, antennas, AC cords, cabinets, headbands, ear-pads, or damage due to line power surges, connection to improper voltage supply or settings, misuse, mishandling, accident, acts of God or attempted repair by an unauthorized service agent.
To obtain service, the original purchaser MUST present a sales receipt / proof of purchase indicating date of purchase, amount paid, and place of purchase. Send the unit prepaid to the address below in the original packaging or reasonable substitute to prevent damage. You “Must” include your full name, shipping address and telephone number. No return will be shipped back to a PO Box. Please include your check or money order in the amount of $12.00, payable to Innovative Technology Electronics Corp. to cover handling and return shipping charges. (IT) will not be responsible for delays or unprocessed claims resulting from a purchaser’s failure to provide any or all of the necessary information.

Send all inquires or returns to:
Customer Service Dept.
Innovative Technology Electronics Corp.
4 Anchor Way, Port Washington, NY 11050
Tel : 1-877-ITECH-97 (1-877-483-2497)
EMAIL: support@ithomeproducts.com

There are no express warranties except as listed above.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CUSTOMER, (IT) SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.